



Circulator

Exploded View
 For Series 100, Series HV, 2",
 PR, 2 1/2", LD-3 & HD-3 Models

*Impeller not always included in Bearing Assembly.

**Shown rotated 90°.

■ - Factory recommended spare parts.

PARTS FOR SERIES 100

MODELS MANUFACTURED AFTER NOVEMBER, 1956 ("11U" DATE CODE)

ITEM NO.	DESCRIPTION	100 NFI 106189	100 BI 106190	100 AB 106192	100 BNFI 106197
1	Body	118339	118339	118413LF	118413LF
	Body Capscrew (4 required)	P40020	P40020	P40020	P40020
4	Bearing Assembly	118844LF ¹	118844LF ¹	189034LF	189034LF
4 & 8	Bearing Assembly with NFI Impeller	189134LF ²	NONE	NONE	189161LF
	Bracket Capscrew (4 required)	P04770	P04770	P04770	P04770
8	Impeller	189132LF	118431LF	118431LF	189132LF
5	Coupler Assembly	118705+	118705+	118705+	118705+
	Flange (3/4")	P00739	P00739	P00789	P00789
	Flange (1")	P00792	P00792	P00836	P00836
	Flange (1 1/4")	P03250	P03250	P00837	P00837
	Flange (1 1/2")	P03430	P03430	P2000085	P2000085
	Flange Gasket Set	118368	118368	118368	118368
	Fastener Package w/ Flange Gaskets	P64910	P64910	P64910	P64910
6	Power Pack	111034*	111034*	111034*	111034*
22	Ring Motor Mount Set	118223	118223	118223	118223
5 & 22	Coupler & Ring Mount Set	118706	118706	118706	118706

+Cast Iron type. For Stamped Steel, use 189110.
*115V only. For 230V, use 111035.

NOTE:

#75 Circulator is a Series 100 w/ 3/4" flanges.
#100 Circulator is a Series 100 w/ 1" flanges.
#125 Circulator is a Series 100 w/ 1 1/4" flanges.
#150 Circulator is a Series 100 w/ 1 1/2" flanges.

BEARING ASSEMBLIES

ITEM NO.	DESCRIPTION	118844LF ¹	189134LF ²	189034LF	189161LF
13	Bearing Bracket	P77119	P77119	P77119	P77119
2	Body Gasket	P04080	P04080	P04080	P04080
14	Front Bearing	189071	189071	189071	189071
15	Front Bearing Gasket	P80815	P80815	P80815	P80815
27	Impeller Key	P04940	P04940	P04940	P04940
	Impeller Gasket	P57000	P57000	P57000	P57000
9	Impeller Nut	P2000236	P2000236	P2000236	P2000236
12	Oil Well Cover	P81238	P81238	P81238	P81238
19	Oil Wick Set	118395	118395	118395	118395
11	Seal Kit**	118681LF	118681LF	118681LF	118681LF
21	Shaft & Sleeve	189035LF	189035LF	189035LF	189035LF
8	Impeller (NFI)	NONE	189132LF	NONE	189132LF

¹May be used in place of 189034/189034LF manufactured after 2004 (date code "40").

²May be used in place of 189161/189161LF manufactured after 2004 (date code "40").

**For Built-To-Order pumps, see the seal selection chart on page 35.

■ – Factory recommended spare parts.

NOTE: Refer to page 3 for exploded view of circulator.

PARTS FOR SERIES HV & 2"

SERIES HV MANUFACTURED AFTER JANUARY, 1976 ("AT" DATE CODE)

ITEM NO.	DESCRIPTION	HV NFI 102210	HV BI 102230	HV AB 102231	HV BNFI 102213
1	Body	189124	189124	189125LF	189125LF
	Body Capscrew (4 required)	P03470	P03470	P03470	P03470
4	Bearing Assembly	189165LF	189165LF	189165LF	189165LF
4 & 8	Bearing Assembly with Impeller	189166LF	NONE	NONE	189166LF
8	Impeller	189128LF	P07792	P07792	189128LF
5	Coupler Assembly	118705+	118705+	118705+	118705+
	Flange (1")	P00802	P00802	P00804	P00804
	Flange (1 1/4")	P03300	P03300	P2000088	P2000088
	Flange (1 1/2")	P03410	P03410	P2000090	P2000090
	Flange Gasket Set	118373	118373	118373	118373
	Fastener Package w/ Flange Gaskets	P64940	P64940	P64940	P64940
6	Power Pack	111061	111061	111061	111061
22	Ring Motor Mount Set	118223	118223	118223	118223
5 & 22	Coupler & Ring Mount Set	118706	118706	118706	118706

2" MODEL MANUFACTURED AFTER JANUARY, 1976 ("AT" DATE CODE)

ITEM NO.	DESCRIPTION	2" NFI 102214	2" BI 102232	2" AB 102233	2" BNFI 102217
1	Body	189126	189126	189127LF	189127LF
	Body Capscrew (4 required)	P03470	P03470	P03470	P03470
4	Bearing Assembly	189165LF	189165LF	189165LF	189165LF
4 & 8	Bearing Assembly with Impeller	189166LF	N/A	N/A	189166LF
8	Impeller	189128LF	P07792	P07792	189128LF
5	Coupler Assembly	118705+	118705+	118705+	118705+
	Flange (2")	F14200	F14200	P2000078	P2000078
	Flange Gasket Set	118378	118378	118378	118378
	Fastener Package w/ Flange Gaskets	P65031	P65031	P65030	P65030
6	Power Pack	111061	111061	111061	111061
15	Ring Motor Mount Set	118223	118223	118223	118223
5 & 22	Coupler & Ring Mount Set	118706	118706	118706	118706

BEARING ASSEMBLIES

ITEM NO.	DESCRIPTION	189165LF**	189166LF***
13	Bearing Bracket	P77139	P77139
2	Body Gasket	P04890	P04890
14	Front Bearing	P77308LF	P77308LF
15	Front Bearing Gasket	P80816	P80816
27	Impeller Key	P04940	P04940
	Impeller Gasket	NONE	P57000
9	Impeller Nut	P2000236	P2000236
12	Oil Well Cover	P81239	P81239
19	Oil Wick Set	118395	118395
11	Seal Kit*	118681LF	118681LF
21	Shaft & Sleeve	189035LF	189035LF
8	Impeller	NONE	189128LF

*For Built-To-Order pumps, see the seal selection chart on page 35.

**Use same replacement parts for obsolete bearing assemblies 189120 or 189122.

***Use same replacement parts for obsolete bearing assembly 189136.

+Cast Iron type. For Stamped Steel, use 189110.

N/A - Not Available.

■ - Factory recommended spare parts.

NOTE: Refer to page 3 for exploded view of typical circulator.

PARTS FOR SERIES PR, 2 1/2", LD-3 & HD-3

SERIES PR, 2 1/2", LD-3 & HD-3 MANUFACTURED AFTER 1950

ITEM NO.	DESCRIPTION	PR	2 1/2"	LD-3	HD-3
		102206 (IB) 102207 (BI) 102208 (AB)	102218 (IB) 102219 (BI) 102220 (AB)	102222 (IB) 102223 (BI) 102224 (AB)	102226 (IB) 102227 (BI) 102228 (AB)
1	Body (Cast Iron)	118637	118644	118644	118644
1	Body (Brass)	P2000052	P07610	P07610	P07610
	Body Capscrew (4 required)	P03470	P03470	P03470	P03470
4	Bearing Assembly	189105LF	189105LF	189105LF	189105LF
8	Impeller (Steel)	118830	118676	118676	118675
8	Impeller (Brass)	118612LF	118440LF	118440LF	118439LF
5	Coupler Assembly	118705+	118723	118723	118723
	Flange (Steel)	-	P03560	F74000	F74000
	Flange (Brass)	-	P2000093	P2000081	P2000081
	Flange for PR Only (Steel, 3/4")	P00739	-	-	-
	Flange for PR Only (Brass, 3/4")	P00789	-	-	-
	Flange for PR Only (Steel, 1")	P00792	-	-	-
	Flange for PR Only (Brass, 1")	P00836	-	-	-
	Flange for PR Only (Steel, 1 1/4")	P03250	-	-	-
	Flange for PR Only (Brass, 1 1/4")	P00837	-	-	-
	Flange for PR Only (Steel, 1 1/2")	P03430	-	-	-
	Flange for PR Only (Brass, 1 1/2")	P2000085	-	-	-
	Flange Gasket Set	118368	118129	118129	118129
	Fastener Package	P64910▼	P65130	P65130	P65130
6	Power Pack – Sleeve Bearing	111031**	111040***	111040***	111042
6	Power Pack – Ball Bearing	NONE	1699239▲	1699239▲	1699240▲
22	Ring Motor Mount Set	118223	118228	118228	118228
5 & 22	Coupler & Ring Mount Set	118706	118724	118724	118724

BEARING ASSEMBLY

ITEM NO.	DESCRIPTION	189105LF
13	Bearing Bracket	P77177
2	Body Gasket	P05800
14	Front Bearing	P77087
15	Front Bearing Gasket	P80816
27	Impeller Key	P04940
	Impeller Gasket	P57000
9	Impeller Nut	P2000236 ¹
12	Oil Well Cover	P81239
19	Oil Wick Set	118395
11	Seal Kit*	118681LF
21	Shaft & Sleeve	189035LF

+ Cast Iron type. For Stamped Steel, use 189110.

*For Built-To-Order pumps, see the seal selection chart on page 36.

**For 115V only. For 230V, use 111033.

***For 115V only. For 230V, use 111041.

¹On IB pumps, P04650 lockwasher & P04670 nut may be used.

▼Includes flange gaskets.

▲Pumps are furnished with sleeve bearing motors. Ball bearing motors are available as replacement only and are completely interchangeable.

■ – Factory recommended spare parts.

NOTE: Refer to page 3 for exploded view of typical circulator.