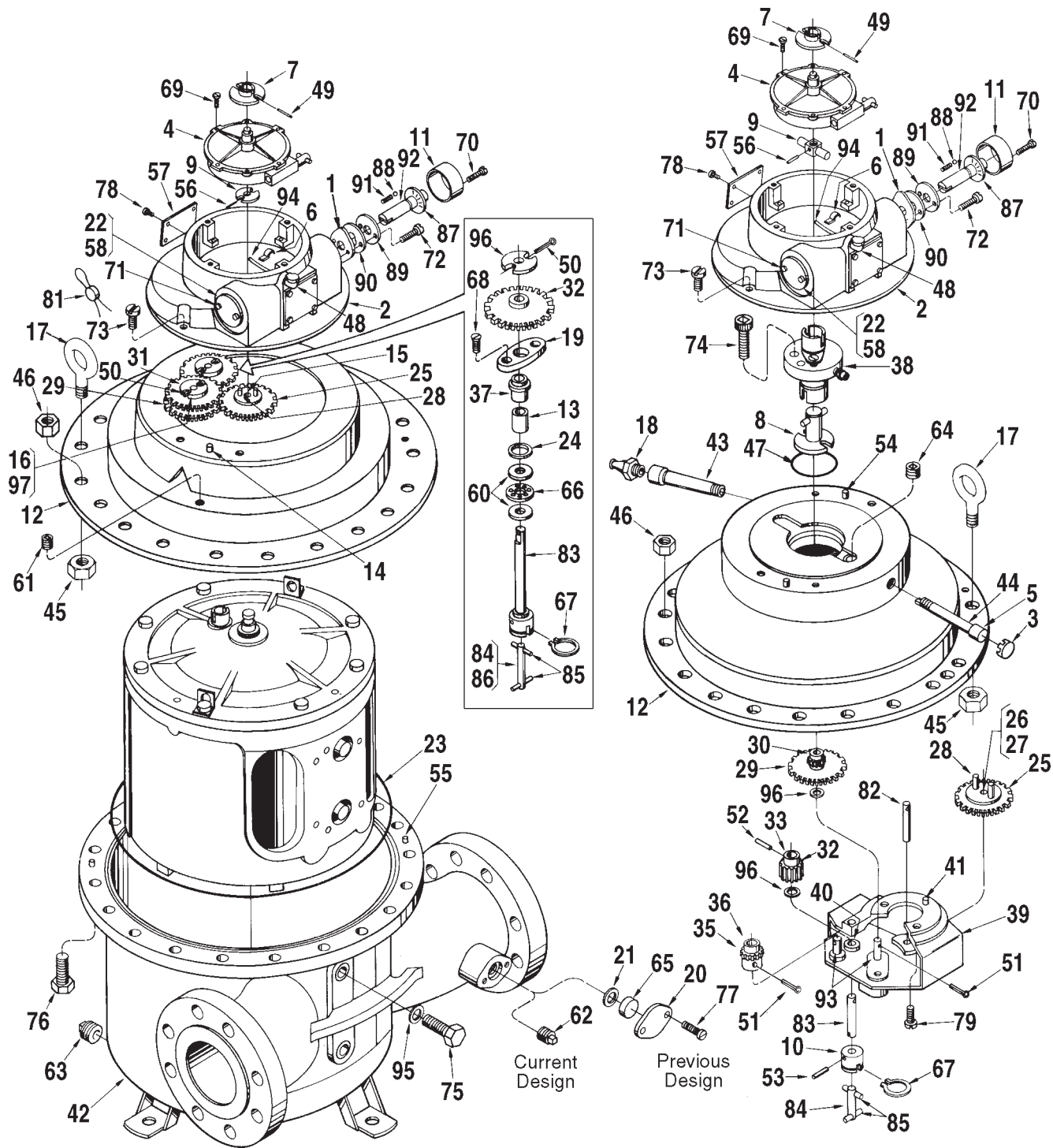
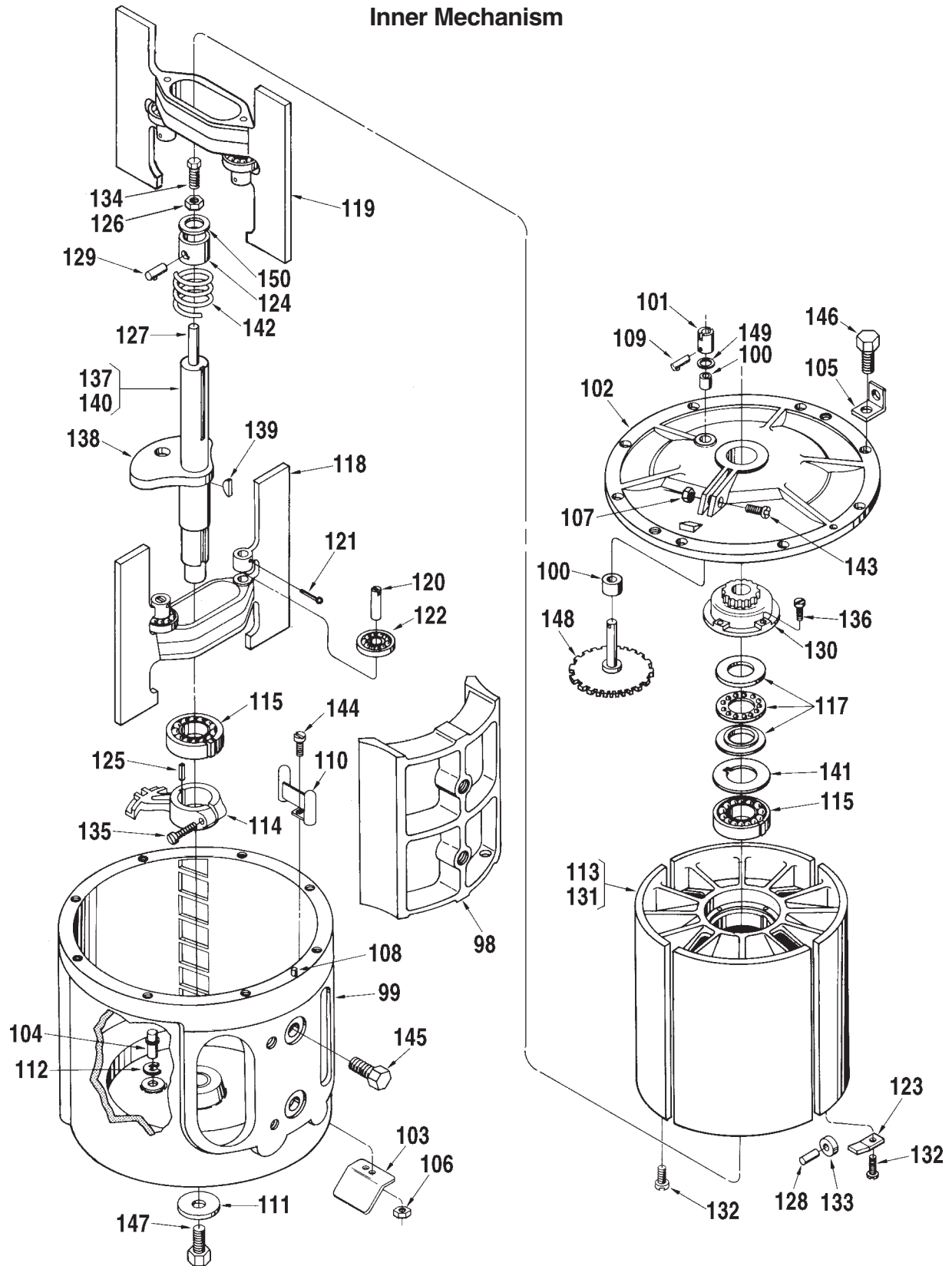




Inner Mechanism



Item	Description	Qty.	F4-A1, S1	F4-A3, S3, S5	F4-S6, S7
1	Adapter, Calibrator Adjusting Stem	1	512372-001	512372-001	512372-001
2	Adapter:				
	Standard and ATC	1	511946-001	511946-001	515755-001
	ATG	1	512916-001	512916-002	516608-001
3	Blank, Snap-In	1	.....	.....	015533-401
4	+ Calibrator:				
	Standard	1	512059-001	512059-001	512059-001
	With ATC (Standard)	1	512060-001	512060-001	512060-001
@1	With ATC (Special Temp. or API)	1	516130-	516130-	516130-
	Dummy Calibrator	1	516105-001	516105-001	516105-001
5	Cap:				
	Standard	1	.....	641746-401	.....
	NACE	1	.....	645238-401	.....
6	Clamp, Oil Tube	1	003905-001	003905-001	003905-001
7	+ Coupling, Drive	1	072103-001	072103-001	072103-001
8	Coupling, Drive:				
	S6	1	.....	.....	518321-001
	S7	1	.....	.....	518321-004
9	Coupling, Input	1	014356-001	003821-001	005969-001
10	Coupling, Jackshaft	1	.....	514633-001	514633-001
11	Cover, Knob	1	003553-001	003553-001	003553-001
12	Cover, Outer Housing:				
	S7 Only	1	.....	.....	515833-001
	All Others	1	512125-091	512682-091	515834-001
	S1, S3 - NACE	1	552162-001	551173-001	.....
	S1 - Teflon	1	512125-099	.....	.....
13	Bushing	1	519882-002	.....	.....
14	Pin, Groove 3/16 x 3/8"	1	641007-401	.....	.....
15	Shaft, Calibrator Drive	1	003775-001	.....	.....
16	Shaft, Idler Pinion	1	512077-001	.....	.....
17	Eyebolt, for Lifting	2	644974-403	644974-403	643877-401
18	Fitting, Grease	1	.....	006408-001	.....
19	Flange, Packing Gland	1	010171-001	.....	.....
20	Flange, Temperature Well Plug	1	011941-001	011941-001	012026-001
21	Gasket	1	060341-001	060341-001	060341-001
22	Gasket, Cover Plate	1	003834-001	003834-001	003834-001
23	+ Gasket, Cover O-Ring:				
	A1, S1, S3, S5, S6, Buna-N	1	512140-001	512140-001	515864-001
	S7, Buna-N	1	.....	.....	515865-001
	A1, S1, S3, S5, S6, Viton	1	512140-002	512140-002	515864-002
	S7, Viton	1	.....	.....	515865-002
	EPR	1	512140-003	512140-003	.....
	Teflon	1	645842-401	645842-401	.....
	S6, Teflon	1	.....	.....	645842-410
24	Gasket, Packing Gland	1	010173-001	.....	.....
25	@2 Gear, Calibrator Drive:				
	U.S. Barrels	1	516490-001	514368-001	514368-001
	U.S. Barrels, LPG	1	516490-001	512239-001	512239-001
	U.S. Gallons	1	008248-001	008248-001	008248-001
	U.S. Gallons, LPG	1	008248-001	511858-001	511858-001
	Imperial Gallons	1	071007-001	514368-001	514368-001
	Imperial Gallons, LPG	1	071007-001	512239-001	512239-001
	Dekalitres	1	070728-001	515934-001	515934-001
	Dekalitres, LPG	1	070728-001	516373-001	516373-001
26	Bushing, Standard and All Iron	1	013372-001	013372-001	013372-001
27	Bushing, LPG	1	504653-001	504653-001	504653-001
28	Pin	2	003325-001	003325-001	003325-001

Item	Description	Qty.	F4-A1, S1	F4-A3, S3, S5	F4-S6, S7
29	@2 Gear, Intermediate Pinion:				
	U.S. Barrels	1	516488-001	514366-001	514366-001
	U.S. Barrels, LPG	1	516488-001	515068-001	515068-001
	U.S. Gallons	1	008250-001	514770-001	514770-001
	U.S. Gallons, LPG	1	008250-001	515071-001	515071-001
	Imperial Gallons	1	072076-001	515769-001	515769-001
	Imperial Gallons, LPG	1	072076-001	515072-001	515072-001
	Dekalitres	1	072056-001	515932-001	515932-001
	Dekalitres, LPG	1	072056-001	516372-001	516372-001
30	Bushing, LPG Only	1		504653-001	504653-001
31	Pin	2	001126-001		
32	@2 Gear, Jackshaft Pinion:				
	U.S. Barrels	1	516485-001	514363-001	514363-001
	U.S. Barrels, LPG	1	516485-001	515066-001	515066-001
	U.S. Gallons	1	008249-001	514767-001	514767-001
	U.S. Gallons, LPG	1	008249-001	515070-001	515070-001
	Imperial Gallons	1	008249-001	514767-001	514767-001
	Imperial Gallons, LPG	1	008249-001	515070-001	515070-001
	Dekalitres	1	008249-001	514767-001	514767-001
	Dekalitres, LPG	1	008249-001	515070-001	515070-001
33	Bushing, LPG Only	1		504653-001	504653-001
34	Pin	2	001126-001		
35	@2 Gear, Reversing Pinion:				
	U.S. Barrels	1		514361-001	514361-001
	U.S. Barrels, LPG	1		515067-001	515067-001
36	Bushing, LPG Only	1		504653-001	504653-001
37	+ Gland, Packing:				
	R Buna-N	1	518630-001		
	R Viton	1	518630-002		
	Teflon	1	009535-001		
	Brass	1	008934-001		
38	+@3 Gland, Packing:				
	Standard - Buna-N	1		513644-001	515849-001
	Teflon	1		513644-002	515849-002
	NACE	1		551178-001	
39	Housing, Gear:				
	Standard and All Iron	1		514628-001	514628-001
	LPG	1		514628-002	514628-002
40	Bushing:				
	Standard and All Iron	1		519882-001	519882-001
	LPG	1		514835-001	514835-001
41	Dowel	1		003628-001	003628-001
42	Housing, Outer:				
	A1 and A3	1	511982-001	511982-001	
	S1, S3, S6	1	511989-001	511989-001	515835-001
	S1, S3 - NACE	1		551168-001	
	S1, S3 - Teflon	1	511989-099	511989-099	
	S5 and S7	1		514212-001	515836-001
43	Lubrication Assembly	1		514659-001	
44	Nipple:				
	Standard	1		641111-404	
	NACE	1		645185-401	
45	Nut, Eyebolt	2	006399-002	006399-002	
46	Nut, Hex:				
	S6 (3/4"-10)	18			642138-406
	S7 (1"-8)	20			640261-001
	All Others (9/16"-12)	20	642138-401	642138-401	

Item	Description	Qty.	F4-A1, S1	F4-A3, S3, S5	F4-S6, S7
47	+ O-Ring, Packing Gland:				
	Buna-N	1	.....	640173-023	640888-001
	Viton	1	.....	640894-403	640894-001
	EPR	1	.....	641560-408	641560-401
	Teflon	1	.....	645905-402	645905-403
48	Oiler	1	006588-001	006588-001	006588-001
49	Pin, Counter Drive Coupling	1	006028-002	006028-002	006028-002
50	Pin, Cotter (1/16 x 5/8")	2	641042-401	.....	.....
51	Pin, Cotter (1/16 x 3/8")	2	.....	009825-400	009825-400
52	Pin, Groove (1/16 x 1/2"	1	.....	006054-002	006054-002
53	Pin, Groove (5/64 x 5/8")	1	.....	009593-400	009593-400
54	Pin, Groove (3/16 x 3/8")	2	.....	641007-401	.....
55	Pin, Groove, Outer Cover:				
	S7	2	.....	.....	641719-401
	All Others	2	640985-401	640985-401	641719-401
56	Pin, Input Coupling	1	006053-002	006317-002	006053-002
57	Plate, Caution	1	006571-003	006571-003	006571-003
58	Plate, Cover	1	003440-001	003440-001	003440-001
59	Plate, Gland Lubrication	1	.....	517715-001	515873-001
60	+ Plate, Thrust Bearing:				
	Standard and All Iron	2	001111-001	.....	.....
	LPG	1	504720-001	.....	.....
61	Plug, Pipe	1	006073-002	.....	.....
62	Plug, Pipe:				
	Standard	1	006505-002	006505-002	006505-002
	NACE	1	645242-402	645242-402	645242-402
63	Plug, Pipe:				
	Standard	1	006878-002	006878-002	006878-002
	NACE	1	645242-403	645242-403	645242-403
64	Plug, Pipe	1	.....	.....	006393-002
65	Plug, Temperature Well	1	012025-001	012025-001	012025-001
66	+ Retainer, Ball:				
	Standard	1	070360-002	.....	.....
	All Iron	1	070360-001	.....	.....
67	Ring, Snap	1	512066-001	512066-001	512066-001
68	Screw, #10-32 x 1/2"	2	006764-002	.....	.....
69	Screw, #6-32 x 5/16"	2	006048-002	006048-002	006048-002
70	Screw, #10-24 x 3/4", Drilled	2	006481-003	006481-003	006481-003
71	Screw, #10-32 x 3/8"	2	006045-002	006045-002	006045-002
72	Screw, #10-32 x 7/8"	2	640835-001	640835-001	640835-001
73	Screw, Adapter to Cover:				
	A1, S1, A3 (5/16-18 x 3/4", Drilled)	2	009563-400	009563-400	.....
	S3, S5 (5/16-18 x 1", Drilled)	2	.....	065075-003	.....
	S6, S7 (5/16-18 x 1-3/8", Drilled)	2	.....	.....	642019-414
74	Screw, Cap - Packing Gland to Cover:				
	5/16-18 x 1-1/4"	2	.....	006511-002	.....
	7/16-14 x 1-1/2"	4	.....	.....	006410-002
75	Screw, Cap - Inner Mechanism:				
	1/2-13 UNC-2A x 2"	2	.....	646134-401	.....
	1/2-13 x 1-3/4"	2	006169-002	.....	.....
	NACE, 1/2-13 x 1-3/4"	2	645182-401	645182-401	.....
	1/2-13 x 2-1/4"	2	.....	.....	640580-001
76	Screw, Cap - Outer Housing:				
	A1, S1 (9/16-12 x 2")	20	640975-404	.....	.....
	A3, S3, S5 (9/16-12 x 2-1/4")	20	.....	640975-403	.....
	S6 (3/4-10 x 4-1/4")	20	.....	641068-405	.....
	S7 (1-8 x 6")	20	.....	.....	642226-405

Item	Description	Qty.	F4-A1, S1	F4-A3, S3, S5	F4-S6, S7
77	Screw, Temperature Well Flange:				
	5/16-18 x 1"	2	060133-002	060133-002	.....
	5/16-18 x 3/4"	4	.....	.....	006409-002
78	Screw, Drive, #2 x 1/8"	12	009880-400	009880-400	009880-400
79	Screw, Gear Housing, 5/16-18 x 5/8"	2	.....	009813-400	009813-400
80	Screw Set-Gear Housing, #10-32 x 1/4"	1	.....	009469-400	009469-400
81	+ Seal, Lead and Wire	1	001627-400	001627-400	001627-400
82	+ Shaft, Calibrator Drive Gear	1	.....	515341-001	515341-001
83	+ Shaft, Jack (Upper)	1	512116-001	514634-001	514634-001
84	+ Shaft, Link Assembly	1	512069-001	514757-001	515866-001
85	Pin	2	065217-402	065217-402	065217-402
86	Shaft	1	512068-002	.....	.....
87	Stem, Adjusting Assembly	1	009838-001	009838-001	009838-001
88	Ball	2	006427-001	006427-001	006427-001
89	Plate, Base	1	003552-001	003552-001	003552-001
90	Plate, Retainer	1	003556-001	003556-001	003556-001
91	Spring, Knob	2	003557-001	003557-001	003557-001
92	Stem, Adjusting	1	003551-001	003551-001	003551-001
93	Stud, Gear Shaft	2	.....	514370-001	514370-001
94	Tube, Oil	1	514658-001	514658-001	514658-001
95	Washer	2	065309-002	065309-002	533103-001
96	Washer, Jackshaft:				
	A1, S1	1	001125-001	.....	.....
	All Others	3	.....	641985-402	641985-402
97	Washer, Idler Pinion Shaft	1	003599-001	.....	.....

Inner Mechanism

Item	Description	Qty.	Part Number
98	+@4 Block:		
	Current Design, All, Standard	1	517085-001
	Current Design, All, High Viscosity:		
	For 2,000 SSU to 10,000 SSU	1	517085-041
99	Body	1	511997-001
100	+ Bushing, Jackshaft:		
	Standard and All Iron	2	519882-001
	LPG	2	512796-001
101	+ Coupling, Drive	1	512064-002
102	Cover, Inner (Includes Item #100):		
	Standard and All Iron	1	516456-001
	LPG	1	516456-002
103	Cover, Pitot	1	512719-001
104	Dowel, Locating Arm	1	512115-001
105	Lug, Lift	2	512002-001
106	Nut, Pitot Assembly, #10-32 Hex	2	001723-400
107	Nut, 5/16-18 Shakeproof	1	009552-400
108	Pin, Groove, 3/16 x 3/4"	1	007900-400
109	Pin, Groove, 5/64 x 5/8"	1	009593-400
110	Pitot	1	072186-001
111	Plate	1	512714-001
112	Ring, Retaining	1	064150-001
113	@3 Rotor and Blade Assembly:		
	Previous Design, A1 and S1 Only:		
	Standard	1	515706-001
	All Iron	1	515706-002
	Current Design, All:		
	Standard	1	517231-001
	All Iron	1	517231-002
	LPG	1	517231-003
114	Arm, Locating	1	511945-001
115	+ Bearing, Rotor:		
	Standard and All Iron	2	516109-001
	LPG	2	516109-002
117	+ Bearing, Thrust:		
	Standard and All Iron	1	006519-001
	LPG	1	504658-001

Item		Description	Qty.	Part Number
118	+	Blade, Lower:		
		Standard	1	008901-001
		All Iron	1	009441-042
		LPG	1	504662-001
		Standard - Modified for 2,000 SSU to 10,000 SSU	1	008901-041
		Standard - Modified for 200°F Max.	1	008901-042
		Standard - Modified for 2,000 SSU to 10,000 SSU and 200°F Max.	1	008901-043
		A.I. - Modified for 2,000 SSU to 10,000 SSU	1	009441-041
119	+	Blade, Upper:		
		Standard	1	008900-001
		All Iron	1	009441-042
		LPG	1	504663-001
		Standard - Modified for 2,000 SSU to 10,000 SSU	1	008900-041
		Standard - Modified for 200°F Max.	1	008900-042
		Standard - Modified for 2,000 SSU to 10,000 SSU and 200°F Max.	1	008900-043
		A.I. - Modified for 2,000 SSU to 10,000 SSU	1	009442-041
120		Pin, Blade Roller	2	003449-001
121		Pin, Cotter, 3/32 x 1"	2	006308-001
122	+	Roller, Blade:		
		Standard and All Iron	2	065109-001
		LPG	2	644412-402
123		Clamp, Rotor Cover Roller	8	011226-001
124		Clamp, Thrust Bearing	1	512074-001
125		Key	1	512715-001
126		Nut, Adjusting Screw	1	003527-001
127		Pin, Adjusting Screw Extension	1	512073-001
128		Pin, Rotor Cover Roller	4	001634-001
129		Pin, Thrust Bearing Collar	1	008251-001
130		Plate, Roter Gear	1	512112-001
131		Rotor:		
		Standard	1	008253-002
		Old Style w/Drilled Holes	1	008253-191
		Standard - Modified for 2,000 SSU to 10,000 SSU	1	008253-041
		LPG and Standard - Modified for 200°F Max.	1	008253-042
		Standard - Modified for 2,000 SSU to 10,000 SSU and 200°F Max.	1	008253-043
132		Screw, 1/4-20 x 7/8"	12	006100-002
133	+	Roller, Rotor Cover:		
		Standard and All Iron	4	011681-001
		LPG	4	514751-001
134		Screw, Adjusting	1	003526-002
135		Screw, Locating Arm, 5/16-18 x 1-1/4"	1	643764-402
136		Screw, Rotor Gear Plate, 1/4-20 x 7/8"	4	006100-002
137	+@4	Shaft and Cam Assembly:		
		Previous Style, A1 and S1 Only	1	512113-001
		Current Style, All	1	517152-001
138	@4	Cam:		
		Previous Style, A1 and S1 Only	1	003814-001
		Current Style, All	1	517019-001
139		Key:		
		Current Style, All	1	005535-800
140		Shaft	1	511876-001
141		Spacer, Bearing	1	512075-001
142	+	Spring, Rotor Bearing	1	002198-002
143		Screw, 5/16-18 x 1"	1	006325-002
144		Screw, #10-32 x 1-1/2"	2	009606-400
145		Screw, Cap (Block) 1/2-13 x 1"	2	010525-400
146		Screw, Inner Cover to Body	8	006140-002
147		Screw, Nylok	1	641044-401
148		Shaft, Jack and Gear Assembly	1	512062-001

Item	Description	Qty.	Part Number
149	Washer	1	643249-401
150	Washer, Special	1	516061-001
151	Washer, Lock #10	2	642482-406

Inner Mechanism General Assembly Numbers

Standard	517153-091
All Iron	517153-092
LPG	517153-093

+ Recommended spares.

* Not Illustrated.

R Indicates change since last revision.

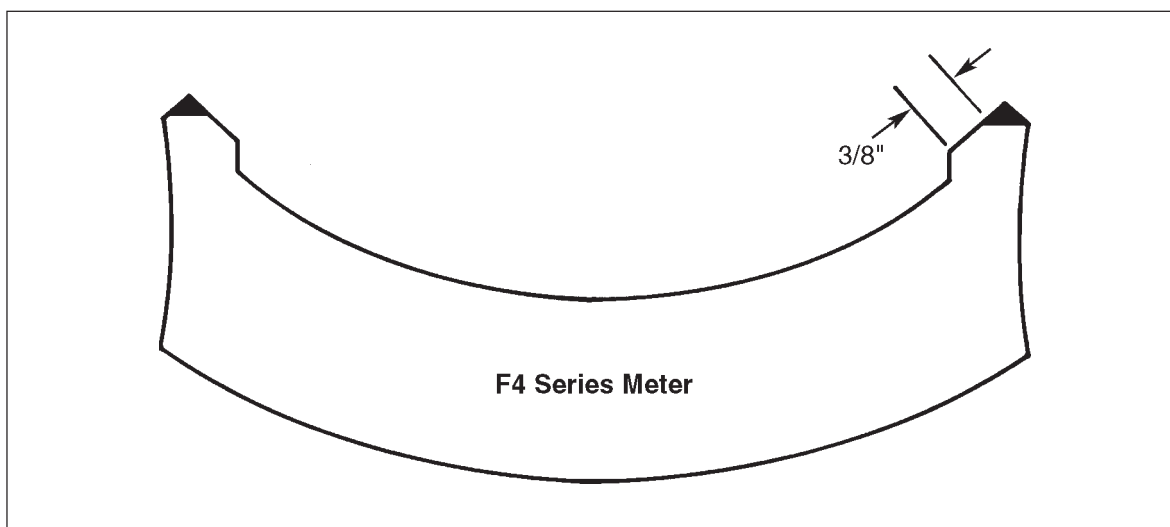
@1 Note 1: When ordering, include temperature range and specific API gravity.

@2 Note 2: Only standard gearing is listed. For additional gearing combinations, see Gear Train Bulletin SS01027.

@3 Note 3: See Form No. P0605.** for components.

@4 Note 4: In 1973 a change in design was made to the block and cam of the four-inch meter. To ensure proper operation, a current style block must be used with a current style cam. Either current or previous style block can be used with previous style cam. The shaded area of the block outline below represents the dimensioning of the previous style.

** The latest edition is indicated by a 2-digit postscript (e.g., .01, .02, etc.).



The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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