





Item	Description	Qty.	Part Number
1	Adapter, Calibrator Adjusting Stem .....	1	512372-001
2	Adapter, Counter .....	1	517052-001
3	+ Calibrator:		
	Standard .....	1	512059-001
	Temperature Corrected (Standard) .....	1	512060-001
@1	Temperature Corrected (Special Temperature or API) .....	1	516130-
	Dummy Calibrator .....	1	516105-001
4	Clamp, Oil Tube .....	1	003905-001
5	Coupling .....	1	517061-001
6	Pin.....	1	641863-401
7	+ Coupling, Drive.....	1	072103-001
8	Coupling, Input .....	1	014356-001
9	Cover, Knob.....	1	003553-001
10	Cover, Outer Housing.....	1	517053-001
11	Flange, Packing Gland .....	1	010171-001
12	Flange, Temperature Well Plug.....	1	011941-001
13	Gasket, Cover Plate .....	1	003834-001
14	+ Gasket, Packing Gland.....	1	010173-001
15	+ Gasket, Temperature Well .....	1	060341-001
16	+ Gear, Calibrator Drive:		
	U.S. Gallons, F4-V1 and F4-VA1 .....	1	008248-001
	Imperial Gallons, F4-V1 and F4-VA1 .....	1	071007-001
	Dekalitres, F4-V1 and F4-VA1 .....	1	070728-001
17	+ Gear, Jackshaft, F4-VA1 Only .....	1	008250-001
18	+ Gear, Single:		
	U.S. Gallons, F4-V1 Only .....	1	008249-002
	U.S. Gallons, F4-VA1 Only.....	1	008249-001
	Imperial Gallons, F4-V1 and F4-VA1 .....	1	072076-002
	Dekalitres, F4-V1 and F4-VA1 .....	1	072056-002
19	+ Gland, Packing:		
R	Buna-N.....	1	518630-001
R	Viton .....	1	518630-002
	Teflon .....	1	009535-002
	Brass.....	1	008934-002
20	Housing:		
	F4-V1 .....	1	517056-001
	F4-VA1 .....	1	534266-001
21	Nut, Cover, 9/16"-12 UNC-2B.....	20	642138-401
22	+ O-Ring, Access Plate:		
	Buna-N.....	1	009902-400
	Viton.....	1	640894-439
	Teflon .....	1	641754-438
	EPR .....	1	641560-438
23	+ O-Ring, Base Plate:		
	Buna-N.....	1	640888-004
	Viton.....	1	640894-406
	Teflon .....	1	641754-403
	EPR .....	1	641560-404
24	+ O-Ring, Cover:		
	Buna-N.....	1	512140-001
	Viton.....	1	512140-002
	Teflon .....	1	645842-401
	EPR .....	1	512140-003
25	Oiler.....	1	006588-001
26	Pin, Cotter, 1/16 x 1/2", F4-VA1 Only .....	1	001095-001
27	Pin, Cotter, 1/16 x 5/8".....	1	641042-401
28	Pin, Groove, 1/16 x 5/8".....	1	006028-002

Item	Description	Qty.	Part Number
29	Pin, Groove, 5/64 x 1/2".....	1	006053-002
30	Plate, Access.....	1	517051-001
31	Plate, Base:		
	F4-V1 .....	1	517054-001
	F4-VA1 .....	1	517054-003
32	Bushing .....	1	519882-002
33	Shaft, Calibrator Drive Gear .....	1	003775-001
34	Shaft, Idle Gear, F4-VA1 Only .....	1	512077-001
35	* Plate, Caution.....	1	006571-001
36	Plate, Cover.....	1	003440-001
37	Plate, Thrust Bearing.....	2	001111-001
38	Plug, Pipe .....	2	006505-002
39	Plug, Temperature Well.....	1	012025-001
40	Retainer and Balls .....	1	070360-001
41	Ring, Retaining.....	1	009691-400
42	Screw, 1/2-13 x 1-3/4" .....	2	006169-002
43	Screw, 9/16-12 x 1-3/4" .....	20	640975-401
44	Screw, #6-32 x 5/16" .....	2	006048-002
45	Screw, #8-32 x 3/16" .....	2	006449-002
46	Screw, #10-32 x 3/8" .....	2	006045-002
47	Screw, #10-32 x 1/2" .....	2	006764-002
48	Screw, #10-32 x 7/8" .....	2	640835-001
49	Screw, #10-24 x 3/4", Drilled .....	2	006481-003
50	Screw, 5/16-18 x 3/4" .....	2	006409-002
51	Screw, 5/16-18 x 7/8", Drilled .....	6	009563-401
52	Screw, 5/16-18 x 7/8" .....	2	009563-400
53	Screw:		
	5/16-18 x 1".....	1	060133-002
	5/16-18 x 1", Drilled .....	1	065075-003
54	Screw, 5/16-18 x 2" .....	1	642019-415
55	+ Seal, Lead, and Wire .....	2	001627-400
56	Shaft, Link Assembly .....	1	517063-001
57	Pin.....	2	640780-001
58	Ring, Snap .....	1	006076-400
59	Spring .....	1	518113-001
60	Shaft .....	1	517064-001
61	Washer.....	1	517065-001
62	Shaft, Upper Jack .....	1	512116-001
63	Stem Assembly, Adjusting .....	1	009838-001
64	Ball.....	2	006427-001
65	Plate, Base .....	1	003552-001
66	Plate, Retainer .....	1	003556-001
67	Spring, Knob .....	2	003557-001
68	Stem, Adjusting.....	1	003551-001
69	Tube, Oil .....	1	514658-001
70	Washer, 1-1/16" O.D. x 17/32" I.D.....	2	065309-002
71	Washer, Jackshaft .....	1	001125-001
72	Washer, Lock, 5/16".....	3	642482-407
73	Washer, Pinion, F4-VA1 Only .....	1	003599-001
74	Pin .....	1	006054-002
<b>Inner Mechanism</b>			
75	+ Bearing, Thrust.....	1	641920-401
76	Block.....	1	517085-002
77	Body .....	1	511997-001

Item	Description	Qty.	Part Number
78	Cover, Inner Housing.....	1	517081-001
79	+ Bushing:		
	Standard and All Iron .....	2	519882-001
	LPG .....	2	512796-001
80	Dowel, Locating Arm .....	1	512115-001
81	Gear and Bearing Block .....	1	517083-001
82	+ Bearing, Thrust .....	1	641920-401
83	Block, Bearing.....	1	517079-001
84	Bushing .....	2	065312-001
85	Coupling.....	1	512064-002
86	Gear.....	1	517070-001
87	Pin, Groove, 5/64 x 3/4" .....	2	006320-002
88	Ring, Snap .....	1	006076-400
89	Shaft .....	1	517084-001
90	Washer.....	1	517065-001
91	Gear, Jackshaft.....	1	517076-001
92	Gear, Meter .....	1	517070-001
93	Lug, Lifting.....	2	512002-001
94	Pin, Groove, 3/16 x 3/4".....	2	007900-400
95	Pin, Groove, 5/64 x 3/4".....	1	006320-002
96	Plate .....	1	512714-001
97	Ring, Retaining.....	1	064150-001
98	Rotor Assembly, Standard.....	1	517769-001
99	Arm, Locating.....	1	511945-001
100	Ball.....	1	006467-400
101	+ Bearing, Rotor:		
	Standard and All Iron .....	1	006523-001
	LPG .....	1	644412-407
102	+ Bearing, Rotor:		
	Standard and All Iron .....	1	516109-001
	LPG .....	1	516109-002
103	Blade, Upper and Lower:		
	Standard.....	2	517073-001
	LPG .....	2	517073-002
	All Iron .....	2	009441-042
104	+ Bearing, Blade:		
	Standard and All Iron .....	2	065109-001
	LPG.....	2	644412-402
105	Pin, Cotter, 3/32 x 1".....	2	006308-001
106	Shaft, Blade Bearing.....	2	003449-001
107	Cam and Shaft Assembly .....	1	517078-001
108	Cam.....	1	517019-001
109	Key .....	1	005535-800
110	Shaft.....	1	517080-001
111	Clamp, Roller .....	8	011226-001
112	Collar, Thrust.....	1	517069-001
113	Key.....	1	512715-001
114	Pin, Thrust Collar .....	1	008251-001
115	Plate Assembly, Rotor Gear.....	1	512112-002
116	Ring, Spirolock.....	1	643064-401
117	Rotor .....	1	008253-091
118	Screw, Set, 1/2-20 x 1" UNF-3A .....	1	644494-401
119	Screw, 5/16-18 x 1-1/4".....	1	643764-402
120	Screw, 1/4-20 x 7/8", Drilled.....	8	006100-003
121	Screw, 1/2-20 x 1/4".....	1	641914-401
122	Screw, 1/4-20 x 1".....	4	006004-002
123	Spacer .....	1	517071-001

Item	Description	Qty.	Part Number
124	+ Spring .....	1	002198-002
125	Spring, Loading.....	1	641913-401
126	Screw, 1/2-13 x 1" .....	2	010525-400
127	Screw, 5/16-18 x 1" .....	8	006140-002
128	Screw, 3/8-16 x 1-1/4" .....	1	641044-401
129	Screw, 1/4-20 x 7/8" .....	3	006100-002

+ Recommended spares.

\* Not illustrated.

R Indicates change since last revision.

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

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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